

Total No. of Questions : 6]

SEAT No. :

P243

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BE/INSEM/APR-573
B.E. (E & TC) (Semester - II)
404192C: WIRELESS SENSOR NETWORKS
(2015 Pattern) (Elective - IV)

Time : 1 Hour]

[Max. Marks : 30

Instructions to the candidates:

- 1) *Answer Q.1, or Q.2, Q.3, or Q.4, Q.5 or Q.6.*
- 2) *Neat diagrams must be drawn whenever necessary.*
- 3) *Figures to the right indicate full marks.*

Q1) a) What is wireless sensor Network? List any four applications of WSN.[6]

b) Draw and explain WSN architecture. [4]

OR

Q2) a) Explain the architecture of a sensor node with neat diagram. [6]

b) Describe how wireless sensor network is used for healthcare application. [4]

Q3) a) Describe LEACH protocol with the help of neat diagram. [6]

b) List any four MAC layer protocols for WSN. [4]

OR

Q4) a) Explain stop-and-wait protocol with the help of neat diagram. [6]

b) What is "topology control" in WSN? Explain how it can be achieved.[4]

Q5) a) Write a short note on 6 LOWPAN protocol. [6]

b) Compare wibree and Bluetooth technologies. [4]

OR

Q6) a) What is IEEE 802.15.3 High rate WPAN standard? Mention its specifications. [5]

b) Write a short note on wibree technology. [5]

